

Kentucky Method 64-318-~~0305~~

Revised ~~2/17/03~~1/4/05

Supersedes 64-318-~~0003~~

Dated ~~1/27/00~~2/17/03

TEMPERATURE OF FRESHLY MIXED CONCRETE

Perform Test procedure according to ASTM C 1064 with the following exceptions:

1. Obtain the sample in accordance with KM 64-301, Sampling Fresh Concrete.
- ~~1. SCOPE: This method covers the determination of temperature of freshly mixed concrete.~~
- ~~2. APPARATUS:~~
 - ~~2.1. A nonabsorptive container large enough to provide at least 3" of concrete in all directions around the sensor of the concrete thermometer.~~
 - ~~2.2. A concrete thermometer capable of measuring the freshly mixed concrete to $\pm 1^{\circ}\text{F}$ throughout the entire temperature range likely to be encountered in fresh concrete.~~
- ~~3. CALIBRATION:~~
 - ~~3.1. Calibrations of thermometers are to be performed annually or whenever there is a question about accuracy.~~
 - ~~3.2. Have both the temperature and reference thermometer maintained in bath for a minimum of 5 minutes.~~
- ~~4. SAMPLING:~~
 - ~~4.1. The sample of concrete shall be obtained in accordance with Ky. Method 64-301 Sampling Fresh Concrete.~~
 - ~~4.2. Temperature shall be completed within 5 minutes of obtaining sample.~~
 - ~~4.3. The temperature of the freshly mixed concrete may be measured in the transporting equipment provided the sensor of the thermometer has at least 3" of concrete cover in all directions around it.~~
 - ~~4.4. Temperature of the freshly mixed concrete may be obtained following concrete placement using the forms as the container as long as the 3" cover is maintained.~~
- ~~5. PROCEDURE:~~

5.1. ~~Place the thermometer in the freshly mixed concrete so that the sensor of the thermometer is submerged a minimum of 3". Gently press the concrete around the thermometer at the surface of the concrete so that ambient air temperature does not affect the reading.~~

5.2. ~~Leave the thermometer in the freshly mixed concrete for a minimum period of 2 minutes or until the reading stabilizes, then read while the thermometer is still in the concrete and read the temperature.~~

5.3. ~~Record the measured temperature of the freshly mixed concrete to the nearest 1 °F.~~

APPROVED _____

Director
DIVISION OF MATERIALS

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